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FILE COVERS 1907 - 10 Sep 2010 VOL 153 ISS 12 FILE LAST UPDATED; 9 Sep 2010 (20100909/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at: http://www.cas.org/legal/infopolicy.html This file contains CAS Registry Numbers for easy and accurate substance identification. => s sandmever () reaction? and copper? 1828 SANDMEYER 3 SANDMEYERS 1829 SANDMEYER (SANDMEYER OR SANDMEYERS) 4722051 REACTION? 1249 SANDMEYER (W) REACTION? 1123055 COPPER? 97 SANDMEYER (W) REACTION? AND COPPER? => s copper () II 1120963 COPPER 544 COPPERS 1121038 COPPER (COPPER OR COPPERS) 2383058 II 1255 IIS 2383799 II (II OR IIS) L12 52536 COPPER (W) II => s 112 and sandmeyer () reaction? 1828 SANDMEYER 3 SANDMEYERS 1829 SANDMEYER (SANDMEYER OR SANDMEYERS) 4722051 REACTION? 1249 SANDMEYER (W) REACTION? L13 9 L12 AND SANDMEYER (W) REACTION? => s 113 and review/dt 2416647 REVIEW/DT 0 L13 AND REVIEW/DT => d 113, ibib abs, 1-9 THE ESTIMATED COST FOR THIS REQUEST IS 27.90 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) /N:v L13 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2009:1149701 HCAPLUS DOCUMENT NUMBER: 151:448008 TITLE: Chelation-Assisted Palladium-Catalyzed Direct Cyanation of 2-Arylpyridine C-H Bonds AUTHOR(S): Jia, Xiaofei; Yang, Dongpeng; Zhang, Shouhui; Cheng, Jiang CORPORATE SOURCE: College of Chemistry and Materials Engineering, Wenzhou University, Wenzhou, 325027, Peop. Rep. China SOURCE: Organic Letters (2009), 11(20), 4716-4719

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S):

CASREACT 151:448008

AB A chelation-assisted palladium-catalyzed ortho-cyanation of the sp2 C-H bond of arylpyridine derivs. by CuCN provided aromatic nitriles in moderate to good vields. Notably, the reaction could be conducted on a 10 mmol scale. The key intermediate of a natural product of Menispermum dauricum DC was concisely synthesized by the described procedure. This new

approach represents an exceedingly practical method for the synthesis of aromatic nitriles and offers an attractive alternative to the traditional Sandmeyer reaction.

OS.CITING REF COUNT: THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:383494 HCAPLUS

DOCUMENT NUMBER: 148:552026

TITLE: Synthesis of dioxin-like monofluorinated PCBs: for the use as internal standards for PCB analysis

Sott, Richard; Hawner, Christine; Johansen, Jon E. AUTHOR(S):

CORPORATE SOURCE: Chiron AS, Trondheim, N-7041, Norway SOURCE: Tetrahedron (2008), 64(18), 4135-4142

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Ltd. DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 148:552026

AB Monofluorinated polychlorinated biphenyls (fluoro-PCBs) were prepared using the Suzuki-coupling, for use as anal. stds. for PCB measurements. Seven of these fluoro-PCBs are analogs of the dioxin-like PCBs, listed by the WHO as the most toxic PCB congeners. Four highly chlorinated fluoro-PCBs were prepared by Suzuki-coupling of 2,3,5,6-tetrachloro-bromoaniline with various substituted arylboronic acids. The resulting amino-fluoro-PCBs

are chlorinated using the Sandmeyer reaction or deaminated to yield tetra-, penta- and hexa-chlorinated fluoro-PCBs. The fluoro-PCBs elute just before the corresponding PCBs in the GC

chromatogram, which strongly indicates their potential as anal. stds.

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 19 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:625843 HCAPLUS

DOCUMENT NUMBER: 141:157033

TITLE: Process for the preparation of iodochromones, intermediates in the synthesis of fungicides, by condensation of nitriles with o-hydroxyarvl esters,

cyclization, diazotization, decomposition of the diazonium salt, etherification and/or

transetherification

INVENTOR(S): Delamare, Madelaine; Casado, Michel PATENT ASSIGNEE(S): Bayer Cropscience S. A., Fr.

STNsdddaeatat

SOURCE: Eur. Pat. Appl., 16 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.							APPLICATION NO.										
							EP 2003-356014										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	R, II	, LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑI	, TE	, BG,	CZ,	EE,	HU,	SK	
WO	2004	0698:	21		A1		2004	0819		WO	2004	-EP17	86		2	0040	128
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BE	3, BO	, BR,	BW,	BY,	ΒZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	D2	, E	, EE,	EG,	ES,	FΙ,	GB,	GD,
												, KE,					
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							SN,										
EP												-7058					
	R:											, LI,					PT,
												, BG,					
BR	2004	0066	8.7		A		2005	1220		BR	2004	-6687	2256		2	0040	128
CN	1/45	0/5			A		2006	0308		CN	2004	-8000 -5019	3356		2	0040	128
JP	2006	2162	95		1		2006	0 / 0 6		JP	2000	-5019	30		2	0040	178
TIV	2005	DNU3.	345		A		2007	0420		TIM	2000	-B277	45		2	0050	121
												-5442					
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The invention is related to a process for the preparation of iodochromones (I), intermediates in the synthesis of fungicides, by condensation of nitriles R1CH2CN with o-hydroxyaryl esters (II), cyclization in aqueous acidic media, diazotization of the amine (III) with alkyl(thio)nitrites, or alkylthionitrates, or NaNO2 in HCl, or H2SO4, Sandmeyer reaction of the in-situ formed diazonium salt in the presence of copper halides or Cu(OR3), followed by etherification with or transetherification with sodium alkoxides [R1, R2, R3, R4 = independently (un) substituted alk(en/yn)yl, carbocyclyl, heterocyclyl]. The advantages include high reaction yields, and conversions, use of cheap reagents, reduction in number of steps, and elimination of undesired steps and byproduct formation. For example, 2-butoxy-6-iodo-3-propylchromone (m.p. = 69-71°) was prepared by condensation of valeronitrile with 4-iodosalicylate in the presence of DIPA in THF/cyclization in the presence of NH4Cl, diazotization/Sandmever reaction i the presence of t-Bu nitrite/CuCl2/CH3CN, and etherification of the chlorochromone with sodium butvlate in n-butanol. REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2002:153725 HCAPLUS

DOCUMENT NUMBER: 137:124967

TITLE:

Synthesis of fluorine containing polyfunctional aromatic compounds. Sandmeyer synthesis of

4-halo-3-trifluoromethylbenzonitriles Hino, Tetsuo; Namie, Tsutomu; Nakamura, Hiroyuki;

Yonezawa, Norivuki

Department of Organic and Polymer Materials Chemistry, CORPORATE SOURCE:

Tokyo University of Agriculture and Technology,

Koganei-shi, 184-8588, Japan

SOURCE: Nippon Kagaku Kaishi (2002), (2), 219-222

CODEN: NKAKB8; ISSN: 0369-4577

AUTHOR(S):

STNsdddaeatat

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): Nippon Kagakkai Journal Japanese

OTHER SOURCE(S)

CASREACT 137:124967





 ${\tt AB} \quad {\tt An} \ {\tt effective} \ {\tt synthesis} \ {\tt of} \ {\tt a} \ {\tt series} \ {\tt of} \ {\tt fluorine-containing} \ {\tt polyfunctional} \ {\tt aromatic}$

compds., 4-halo-3-trifluoromethylbenzonitriles (I; X = CL, Br, P) from 4-halo-3-trifluoromethylanilines (II; X = SL) same as above) was performed by the use of some tetrahedral copper-cyano complexes as Sandmeyer cyanating reagents and sublimation in the isolation and purification process. In the conversion of the corresponding diazonium salts to the target benzonitrile derivs. I, three tetrahedral tetracyanocopper complexes, K3[Cu(CN)4], Na3[Cu(CN)4], and K2[Cu(CN)4] with K3[Cu(CN)4], and K3[Cu(CN)4], and K3[Cu(CN)4] compds. I in moderate yields. Furthermore, the yields of nitriles I in the reaction with the copper(I) complexes were rather higher than that with the copper(II) complex, K3[Cu(CN)4]-MH3].

The conversion reactions to nitriles I are suggested to proceed through an SNAr mechanism.

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(5 CITINGS)

L13 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1998:812206 HCAPLUS

DOCUMENT NUMBER: 130:139155

OS.CITING REF COUNT:

TITLE: Arenediazonium tetrachlorocuprates(II). Modification

of the Meerwein and Sandmeyer

reactions

AUTHOR(S): Obushak, Mykola D.; Lyakhovych, Mykhaylo B.;

Ganushchak, Mykola I.

CORPORATE SOURCE: Department of Organic Chemistry, Lviv State University, Lvov, 290602, Ukraine

Tetrahedron Letters (1998), 39(51), 9567-9570

CODEN: TELEAY: ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 130:139155

AB In the Cu-catalyzed reactions of arenediazonium chlorides with unsatd.

compds., arenediazonium tetrachlorocuprates(II) are formed as

intermediates. A general method of preparation of these complexed diazonium salts is described. In polar solvents these salts undergo chlorinative

SOURCE:

dediazoniation to give chloroarenes in high yield. The reaction of an arenediazonium tetrachlorocuprate(II) with an activated alkene results in the same products as the Meerwein reaction. A radical cation mechanism for this reaction is proposed.

OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS

RECORD (13 CITINGS)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:985193 HCAPLUS DOCUMENT NUMBER: 124:175098

ORIGINAL REFERENCE NO.: 124:32463a,32466a

TITLE: Sandmeyer reactions. Part 3.

Estimation of absolute rate constants for the transfer

of chloride ligands from CuII to 2-benzoylphenyl radical (Pschorr radical clock) and further investigations of the relative rates of transfer of chloride and water ligands to other substituted phenyl

radicals

AUTHOR(S): Hanson, Peter; Hammond, Roger C.; Gilbert, Bruce C.;

Timms, Allan W.

CORPORATE SOURCE: Dep. Chemistry, Univ. York, York, Y01 5DD, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions

2: Physical Organic Chemistry (1995), (12), 2195-202
CODEN: JCFKBH; ISSN: 0300-9580

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: ROYAL SOCIETY OF CHEMISS

LANGUAGE: English

AB Absolute rate consts. have been estimated for the transfer of chloride ligands from CuCl(OH2)5+, CuCl2(OH2)4 and CuCl3(OH2)3- to 2-benzoylphenyl radical

in aqueous solution at ionic strength 5 mol dm-3 by comparison with its rate of cyclization. The radical reacts with the monochlorocopper(II) complex with k = (8.8 ± 1.3) + 106 dm3 mol-1 s-1, but it does not

discriminate between the di- and tri-chloro complexes, k = $(1.0 \pm 0.15) + 108$ dm3 mol-1 s-1. Relative rate consts. for the transfer of

+ 108 dm3 moI-1 s-1. Relative rate consts. for the transfer of chloride and water ligands to a series of 2-, 3- and 4-substituted Ph radicals have also been obtained; three copper complexes are implicated in

chloride transfer for the conditions examined Radicals with 3- and 4-substituents discriminate the monochlorocopper(II) complex from the two more highly chlorinated complexes, the discrimination increasing the more nucleophilic and reactive the radical. Radicals with strongly

electron-withdrawing 2-substituents (CN, F) do not discriminate between any of the chlorocopper(II) complexes. A mechanistic rationale of the observations is proposed.

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L13 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:733290 HCAPLUS DOCUMENT NUMBER: 123:111866

ORIGINAL REFERENCE NO.: 123:19988h,19989a

TITLE: New method for production 3-chloro-, 3-bromo-, and 3-iodo-10,11-dihydro-5H-dibenz[b,f]azepine derivatives

involving one-step diazotization/Sandmeyer reaction of 5-acetyl-3-aminoiminodibenzyl

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Hosztafi, Sandor; Galamb, Vilmos; Csende, Ferenc; INVENTOR(S):

Nagy, Janosne; Frank, Laszlo

PATENT ASSIGNEE(S): Alkaloida Vegyeszeti Gyar Rt., Hung. SOURCE: Hung. Teljes, 9 pp.

CODEN: HUXXBU DOCUMENT TYPE:

Patent LANGUAGE: Hungarian

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE HII 67041 A2 19950130 HU 1992-3980 19921216 PRIORITY APPLN. INFO.: HU 1992-3980 19921216

OTHER SOURCE(S): CASREACT 123:111866; MARPAT 123:111866 GI

R1 R2 Т

10,11-Dihydro-5H-dibenz[b,f]azepine derivs. I (R1 = C1, Br, I; R2 = H, AB acvl) are prepared by one-step diazotization/Sandmeyer reaction of 5-acetyl-3-aminoiminodibenzyl (I; R1 = NH2, R2 = Ac) with isopentyl nitrite and anhydrous CuCl2, CuBr2, or CuI. Thus, e.g., anhydrous CuCl2 was added to isopentyl nitrite in MeCN; then 3-amino-5-acetyliminodibenzyl was added so that the temperature did not exceed 30°; mixing for 2 h followed by workup afforded 70% 5-acetyl-3-chloroiminodibenzyl.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L13 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1991:558229 HCAPLUS DOCUMENT NUMBER: 115:158229 ORIGINAL REFERENCE NO.: 115:27079a,27082a

TITLE: Sandmever reactions. Part 1. A

comparative study of the transfer of halide and water

ligands from complexes of copper(II

) to aryl radicals

Hanson, Peter; Jones, Jason R.; Gilbert, Bruce C.; Timms, Allan $\mathbb{W}.$ AUTHOR(S):

Dep. Chem., Univ. York, Heslington/York, YO1 5DD, UK CORPORATE SOURCE: Journal of the Chemical Society, Perkin Transactions SOURCE: 2: Physical Organic Chemistry (1972-1999) (1991),

(7), 1009-17

CODEN: JCPKBH; ISSN: 0300-9580

DOCUMENT TYPE: Journal LANGUAGE: English

AB Evidence was presented indicating that the homolytic formation of phenols under Sandmeyer conditions was directly comparable with the well-known halogenation reactions. Sandmeyer hydroxylation and halogenation are competitive processes; however, transfer of a halide ligand occurs more rapidly than that of a water ligand, and at high halide concns. phenol formation is minor, consistent with long known synthetic results. Relative rate data for ligand transfers to 4-substituted Ph radicals from complexes were given. LFER were examined using oI and oR.

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS

RECORD (12 CITINGS)

L13 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1977:452884 HCAPLUS

DOCUMENT NUMBER: 87 - 52884

ORIGINAL REFERENCE NO.: 87:8367a,8370a

TITLE: Alkyl nitrite-metal halide deamination reactions. 2.

Substitutive deamination of arylamines by alkyl

nitrites and copper(II) halides.

A direct and remarkably efficient conversion of

arvlamines to arvl halides

AUTHOR(S): Dovle, Michael P.: Siegfried, Bernard: Dellaria,

Joseph F., Jr.

CORPORATE SOURCE: Dep. Chem., Hope Coll., Holland, MI, USA SOURCE:

Journal of Organic Chemistry (1977), 42(14), 2426-31

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 87:52884

Arylamines (15) with 1 molar equivalent tert-BuONO and 0.5 molar equivalent CuC12

or CuBr2 resulted in substitutive deamination to give the aryl chlorides or bromides. E.g., O2NC6H4NH2 and 1-aminonaphthalene with CuCl2 and tert-BuONO in MeCN gave 99.5% p-O2NC6H4Cl and 82% 1-chloronaphthalene, resp. In the reactions using CuBr2, bromination at the o- or p-positions also occurred. The deamination-substitution procedure using Cu(II)

halides was compared with that of the Sandmeyer reaction which uses Cu(I) halides.

OS.CITING REF COUNT: 102 THERE ARE 102 CAPLUS RECORDS THAT CITE THIS

RECORD (103 CITINGS)

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